

Title (en)  
LOCKING ARRANGEMENTS FOR DETACHABLE SHAFT ASSEMBLIES WITH ARTICULATABLE SURGICAL END EFFECTORS

Title (de)  
VERRIEGELUNGSANORDNUNGEN FÜR LÖSBARE SCHAFTANORDNUNGEN MIT BEWEGLICHEN CHIRURGISCHEN ENDEFFEKTOREN

Title (fr)  
SYSTÈMES DE VERROUILLAGE POUR ENSEMBLES D'ARBRE AMOVIBLES AVEC DES EFFECTEURS CHIRURGICAUX D'EXTRÉMITÉ ARTICULABLES

Publication  
**EP 3042617 B1 20200304 (EN)**

Application  
**EP 15200727 A 20151217**

Priority  
US 201414575148 A 20141218

Abstract (en)  
[origin: EP3042617A2] A surgical instrument. In one form, the surgical instrument includes a housing that has an interchangeable shaft assembly removably attached thereto. The interchangeable shaft assembly includes an elongate shaft that has a surgical end effector operably coupled thereto for selective articulation relative to the elongate shaft. An articulation system is configured to selectively apply articulation motions to the surgical end effector when the articulation system is in an actuated orientation. A locking arrangement prevents detachment of the interchangeable shaft assembly from the housing when the articulation system is in the actuated orientation.

IPC 8 full level  
**A61B 17/072** (2006.01); **A61B 17/29** (2006.01); **A61B 34/30** (2016.01)

CPC (source: CN EP RU US)  
**A61B 17/072** (2013.01 - RU US); **A61B 17/07207** (2013.01 - CN EP RU US); **A61B 34/30** (2016.02 - CN EP); **A61B 34/30** (2016.02 - US); **A61B 2017/00398** (2013.01 - CN EP US); **A61B 2017/00407** (2013.01 - CN EP US); **A61B 2017/0046** (2013.01 - CN EP US); **A61B 2017/00473** (2013.01 - CN EP US); **A61B 2017/00477** (2013.01 - CN EP US); **A61B 2017/00734** (2013.01 - CN EP US); **A61B 2017/07271** (2013.01 - US); **A61B 2017/07285** (2013.01 - US); **A61B 2017/2927** (2013.01 - CN EP US); **A61B 2017/2946** (2013.01 - EP US)

Cited by  
EP3875041A4; EP3417797A1; WO2022144816A1; WO2018234902A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3042617 A2 20160713; EP 3042617 A3 20161102; EP 3042617 B1 20200304**; BR 112017013037 A2 20180102; BR 112017013037 B1 20220524; CN 107257664 A 20171017; CN 107257664 B 20200630; EP 3590440 A1 20200108; JP 2017538527 A 20171228; JP 6702976 B2 20200603; MX 2017008110 A 20180306; MX 2021015345 A 20220124; MX 2021015346 A 20220124; RU 2017125412 A 20190123; RU 2017125412 A3 20190611; RU 2732043 C2 20200910; US 10085748 B2 20181002; US 10945728 B2 20210316; US 11812958 B2 20231114; US 2016174976 A1 20160623; US 2018368837 A1 20181227; US 2021267594 A1 20210902; US 2024032915 A1 20240201; WO 2016099957 A2 20160623; WO 2016099957 A3 20161027

DOCDB simple family (application)  
**EP 15200727 A 20151217**; BR 112017013037 A 20151204; CN 201580076418 A 20151204; EP 19191101 A 20151217; JP 2017532980 A 20151204; MX 2017008110 A 20151204; MX 2021015345 A 20170616; MX 2021015346 A 20170616; RU 2017125412 A 20151204; US 201414575148 A 20141218; US 2015063960 W 20151204; US 201816021321 A 20180628; US 202117197337 A 20210310; US 202318485751 A 20231012